

1. Introduction

The Vector Fly System contains a wide range of insect light traps that are designed to meet the needs of various flying insect infestations and locations. Each light trap in the system utilizes ultraviolet light to lure the insect to the trap where it becomes trapped onto a glue surface. There are no exploding insect parts, no popping or sizzling – the insects are trapped fully intact. Because insects are captured fully intact, Vector insect light traps may be used for monitoring insect populations and can be placed in food handling areas.

2. Product Description

The Vector Plasma is the latest advancement in insect light trap design and engineering. It utilizes two flat 36 watt bulbs, positioned to maximize fly attraction and capture on the Vector Universal Glueboard. With its slim design, light-weight aluminum construction, electronic ballast and ease of glueboard and bulb change-out, the Vector Plasma will provide years of reliable service with minimal maintenance. It is ideal for use in restaurants, bars, commercial kitchens, food prep areas, grocery stores, bakeries, warehouse storage areas, hospitals and schools.

3. Safety Instructions

CAUTION: This product is intended for commercial indoor use only. The device is not constructed for use outdoors or in wet locations, and therefore, it is not suitable for use in barns, stables or similar locations. To avoid risk of fire or electrical shock, do not use where it may be exposed to water or direct sunlight, including roofed or open porches.

WARNING: Shock hazard. Do not open. There are no user serviceable parts inside. The user may replace glueboards and bulbs. Qualified service personnel must perform all other repairs and maintenance. Store the unit indoors when not in use – out of reach of children. The product is not intended for use by young children or infirm persons. Young people should be supervised to ensure they do not play with the product. To maximize safety, disconnect the unit from the power supply when not in use, when changing bulbs, cleaning, etc. Do not abuse the cord, carry the product by the cord or unplug the unit from the electrical outlet by pulling on the cord. Keep cord

away from heat, oil and sharp edges. Do not use the product if the cord is damaged. To provide continuous protection against the risk of electrical shock, connect the plug only to a grounded outlet. Do not insert foreign objects into the unit. The unit must not be installed where dangerous concentrations of flammable or explosive substances are likely to occur in the air. Do not use the unit near concentrated oxygen or store the glueboards near concentrated oxygen.

4. Grounding Instructions

The Vector Plasma is equipped with an appropriate 3-conductor cord and 3-prong grounding plug to fit grounding type electrical outlets. To reduce the risk of an electric shock, the plug must be plugged into an appropriate electrical outlet that is properly installed and grounded. Consult a suitable qualified person if the grounding instructions are not completely understood, or if in doubt as to whether proper grounding exists. Extension cords are not to be used with this unit.

5. Unpacking

Each Vector product is carefully packed before leaving the factory to ensure it reaches you in perfect working order. Remove all packaging from the product before installation.

6. Guidelines for Placement

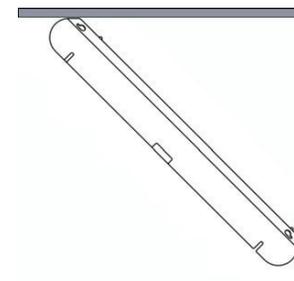
Proper placement is key to achieving maximum efficiency with the Vector Fly System. Below are general guidelines.

- Install the Vector Plasma where insect contact is most probable.
- Locate the Vector close to an opening, but avoid placement where outside light may interfere with insect attraction. Do not install the unit directly next to competing light sources.
- Place the Vector so that the light from it is not visible from the outside of the building.
- Mount the Vector 4 to 6 feet off the floor whenever possible.
- Always keep in mind that the Vector will be most effective when placed where flies congregate. For example:
 - o Near food prep areas where food is readily available (avoid installing directly over food prep surfaces)
 - o Near passages from food prep areas to public areas
 - o Around indoor trash collection areas
 - o Identify natural wind and air currents to ensure flies can reach the Vector

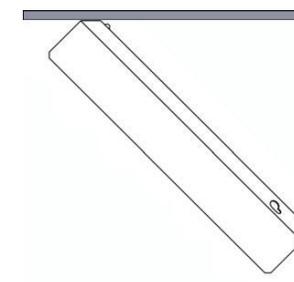
7. Placement Options

The Vector Plasma can be mounted in a number of positions (see diagrams below). Decide on an appropriate mounting option suitable for your location.

CORNER HORIZONTAL MOUNTING



CORNER VERTICAL MOUNTING



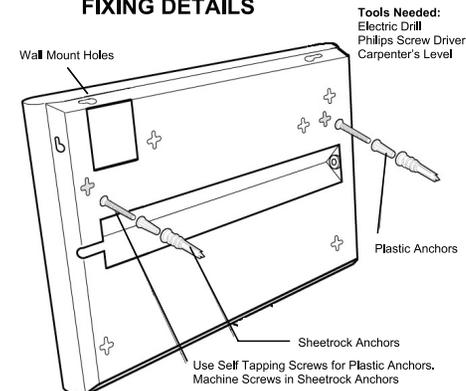
HORIZONTAL MOUNTING



VERTICAL MOUNTING



FIXING DETAILS



8. Electrical Installation

THE VECTOR PLASMA MUST BE INSTALLED BY QUALIFIED PERSONNEL ONLY. This equipment utilizes a standard 110-120 V 50/60 Hz electrical supply outlet with grounding pin. The supply must be properly grounded. For safe operation, it is recommended that the electrical outlet be fused at 3 A. If in doubt, consult a qualified electrician to verify the presence of ground. Reference the section titled "Grounding Instructions."

9. Bulb Replacement

Even though the amount of visible light emitted from the bulb does not appear to change, the output of UV-A light diminishes over time. To maintain efficiency, bulbs must be replaced annually. ON NO ACCOUNT USE UV-B or UV-C BULBS. The correct Vector replacement bulb is available from your local distributor. To replace the bulbs, follow the procedure below:

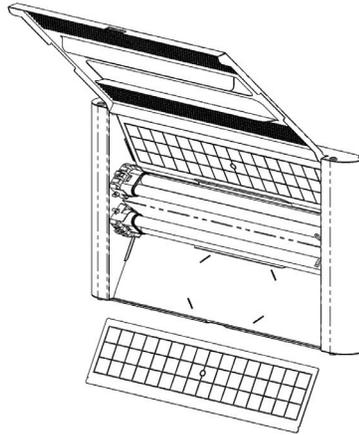
1. Disconnect the power source by unplugging the unit from the outlet. Always unplug the unit before handling.
2. Fully open the front grill by lifting up and away.
3. Press the red quick release button on the bulb holder and pull the bulb out and away, making sure to safely disengage the bulb from the bulb clip on the opposite end.
4. To install the new bulb, align bulb base into the bulb holder and snap into place. Make sure the bulb is fully inserted into the bulb clip at opposite end.
5. Return the grill to its fully closed position.

10. Glueboard Replacement

The Vector Plasma utilizes the Vector Universal Glueboards, one positioned above and one below each bulb. These Glueboards are available from your local distributor. To replace the glueboards, follow the procedure below:

1. Disconnect the power source by unplugging the unit from the outlet. Always unplug the unit before handling.
2. Fully open the front grill by lifting up and away.
3. Remove the old glueboards by grasping each at the glue free portion along the bottom edge.
4. Remove the release paper from a new Vector glueboard and slide it into position, making sure to position the board beneath the glueboard retaining tab. Repeat for the second glueboard. Take care not to touch the adhesive to any part of the unit.

5. Return the grill to its fully closed position.



11. Maintenance and Troubleshooting

The only maintenance required is to keep the Vector unit clean:

1. Disconnect the power source by unplugging the unit from the outlet. Always unplug the unit before handling.
2. Wipe the unit with glass cleaner and a cloth.
3. Change glueboards on a regular basis.
4. Change bulbs annually.

The electronic ballast in the Vector Plasma is equipped with a safety circuit that shuts down the unit when an electrical surge occurs. Units in shutdown phase may appear to be defective or give the false impression that both bulbs have burned out. If both bulbs are not lit, perform the following steps:

1. Unplug the unit from the electrical outlet.
2. Wait 15 seconds. A faint glimmer may appear in either or both bulbs indicating the unit has reset.
3. Plug unit into electrical outlet.
4. If bulbs are still not lit, follow the procedure for replacing bulbs.

12. Warranty

BASF Corporation offers a three (3) year limited warranty on the Vector Plasma insect light trap. This warranty assures the buyer that the unit will conform to the standard specifications at the time of manufacture and be free from defects in workmanship and materials under normal conditions for three (3) years from the date the unit is first placed into service. The warranty is subject to the terms outlined in the "Limited Warranty" card found in the Vector box. Failure of the buyer to return the product registration card within 14 days after installation of the unit voids the warranty. Please note that this warranty does not include bulbs or glueboards.

The **VECTOR**[®] Fly System

VECTOR Plasma[®]

INSTRUCTION MANUAL



The Chemical Company

BASF Corporation
Pest Control Solutions
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122